

DERWENT-ACC-NO: 1991-152133

DERWENT-WEEK: 199121

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TITLE: Polyethylene film with easy tear  
properties for food packaging etc. - prepd. by extrusion  
moulding e.g. but-1-ene and linear low density  
ethylene! into film through T-die etc.

PRIORITY-DATA: 1989JP-0225000 (August 30, 1989)

PATENT-FAMILY:

PUB-NO	PAGES	PUB-DATE	
LANGUAGE		MAIN-IPC	
JP 03086514 A		April 11, 1991	N/A
000	N/A		
JP 93081423 B		November 12, 1993	N/A
005	B29C 047/00		

INT-CL (IPC): B29C047/88, B29C055/04 , B29C055/08 ,  
B29K023/00 ,  
B29K023:00 , B29L007/00 , B29L007:00 , B65D065/38 ,  
C08J005/18 ,  
C08L023:04

ABSTRACTED-PUB-NO: JP 03086514A

BASIC-ABSTRACT:

A film is formed with a linear low-density PE with a  
content of 1-butene of  
1-10 mol.%. The IR dichroic ratio  $D_{720\text{cm}^{-1}}$  ( $A_1/A_{11}$ ) of  
the film is above  
1.07 where  $A_1$  = the absorbency when the film discharge or  
drawing direction is  
perpendicular to the IR deflection direction, and  $A_{11}$  =  
absorbency when the  
film discharge or drawing direction is parallel to the IR

deflection direction  
(claimed).

In the claimed prepn. a linear low-density PE with a content of 1-butene of 1-10 mol % (MI 0.1-30 g/10 min., density of 0.900-0.950 g/cub.cm) is heated at 160-280 deg.C. The melted resin is extrusion moulded into a film through a T die having a lip aperture of 0.4-2.0 mm and a draw-down ratio of 20-200. The film is made to get into contact with a roll at 30-100 deg.C for cooling. In the prepn. (independently claimed), the linear low density PE is melted, extrusion-moulded into a film, and uniaxially drawn.

USE/ADVANTAGE - Used for packaging of foods and pharmaceuticals. The film has good easy tear and heat sealing properties.

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Basic Abstract Text - ABTX (2):

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